

Wedron Operations — Wedron Silica Division

INDIVIDUAL PROPERTIES — Wedron Silica Division

Post Office Box 176

Wedron, Illinois 60557 • 815-433-3696

RECEIVED

July 21, 1977

JUL 26 1977
EMMRONMENTAL PROTECTION ACENCY
STATE OF MLINOIS CONTROL

Illinois Environmental Protection Agency Division of Air Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Re: I.D. No. 099804AAB

Gentlemen:

We are submitting an operating permit application for an Environeering A33-18000 Ventri-Rod wet scrubber installed on construction permit No. C701041. This installation replaced a "homemade" collector covered in operating permit No. 03031358 - Area 1 New Dryer Building - Pg. 19 Conveyor Exhaust System. All other equipment covered by that operating permit has not been affected and all information contained therein is still true, correct, current and complete.

We feel that the new scrubber installation (new installation marked in red on print No. 509) will reduce respirable dust emissions within the dryer building providing cleaner air for employees involved in that phase of our operation and at the same time reduce emissions to the atmosphere because of its increased efficiency.

We trust that this new installation will meet with your approval.

Very truly yours,

Wedron Silica Division PEBBLE BEACH CORPORATION

Dale N. Munson Project Engineer

DNM:rb



AREA #1

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

FOR AGENCY USE ONLY

NEW DRYER BUZLDENG

	APPLICATION FO CONSTRUCT NAME OF EQUIPMENT TO BE CONSTRUCTED OR OPERATED APPLICATION FO ENVIRONE Wet Scru	ering A33	(В)	I. D. NO. PERMIT NO. DATE		804 AAB 3 1358 26-77		
						-		
1a. NAME OF OWNER: Pebble Beach Corporation 1b. STREET ADDRESS OF OWNER:			2a. NAME OF OPERATOR: Wedron Silica Division 2b. STREET ADDRESS OF OPERATOR:					
1	Post Office Box 567			400 West Higgins Road				
1	ic. CITY OF OWNER:		2c. CITY O	F OPERATOR:		4.2.		
	Pebble Beach id. STATE OF OWNER:	le. ZIP CODE:	Park	Ridge OF OPERATOR:		2e. ZIP CODE:		
	California	93953	1	nois		60068		
Value of the last						-		
3	Ba. NAME OF CORPORATE DIVISION OR PLANT:		1	ADDRESS OF EMISSION				
30	Wedron Plant Bc. city OF EMISSION SOURCE:	3d. LOCATED WITHIN CITY	30 TOUNCH	Office Bo		3g. ZIP CODE:		
	Wedron	LIMITS: YES THE NO	Dayt		Salle	60557		
6	R. H. Reed Address for correspondence: (check only operator)	,	07.5	THE NUMBER FOR AGENCY $433-3696$ OF NUMBER FOR THIS AP $04AAB$		#1 DRYR B		
8				TATEMENTS CONTAINED	UEDETN ADE TOU			
	 THE UNDERSIGNED HEREBY MAKES APPLICATION FURTHER CERTIFIES THAT ALL PREVIOUSLY SU BY AFFIXING HIS SIGNATURE HERETO HE FURT 	BMILLED INFORMATION REFER HER CERTIFIES THAT HE IS	RENCED IN THIS AUTHORIZED TO	ADDITEATTAN DEMATA	C TOUR CONDECT	E AND CORRECT, AND AND CURRENT.		
ossession in the property commences of the second of the s	BY AFFIXING HIS SIGNATURE HERETO HE FURT AUTHORIZED SIGNATURE(S): (D) BY	BMITTED INFORMATION REFERENCE THAT HE IS	RENCED IN THIS AUTHORIZED TO	APPLICATION REMAIN DEXECUTE THIS APPL NATURE	S TRUE, CORRECT	E AND CORRECT, AND AND CURRENT.		
, s Sections consiste de commune con April 1 pour les communes communes de la commune de la commune de la commune	BY AFFIXING HIS SIGNATURE HERETO HE FURT AUTHORIZED SIGNATURE(S):(D) BY SIGNATURE TYPED OR PRINTED NAME OF SIGNERALLS	BMITTED INFORMATION REFERENCE IVED DATE JUL 26 1977	RENCED IN THIS AUTHORIZED TO BY STG	APPLICATION REMAIN DEXECUTE THIS APPL NATURE M. W. Kidd ED OR PRINTED NAME	S TRUE, CORRECT	DATE		
	BY AFFIXING HIS SIGNATURE HERETO HE FURT AUTHORIZED SIGNATURE(S):(D) BY SIGNATURE TYPED OR PRINTED NAME OF SIGNERALLS	BMITTED INFORMATION REFERENCE IVED DATE JUL 26 1977	RENCED IN THIS AUTHORIZED TO BY STG	APPLICATION REMAIN DEXECUTE THIS APPL NATURE M. W. Kidd ED OR PRINTED NAME	S TRUE, CORRECT	DATE		
	BY AFFIXING HIS SIGNATURE HERETO HE FURT AUTHORIZED SIGNATURE(S):(D) BY SIGNATURE TYPED OR PRINTED NAME OF SIGNERNVIRON DIVISION TITLE OF SIGNER	DATE JUL 26 1977 MENTAL PROTECTION AGE OF AIR POLLUTION AGE GENERAL FINE OF AIR POLLUTION AGE TATE CONSTRUCT TO BE CONSTRUCT FOULPMENT TO BE CONSTRUCT	RENCED IN THIS AUTHORIZED TO BY STG TYP OTHE EQUIPMEN RATION - AND N	MANAGER OF SIGNER TO BE CONSTRUCTED TO BE CONSTRUCTED	OF SIGNER OPERATED.	DATE THIS FORM MAY		
(1	BY AFFIXING HIS SIGNATURE HERETO HE FURT AUTHORIZED SIGNATURE(S):(D) BY SIGNATURE TYPED OR PRINTED NAME OF SIGNERNVIRON DIVISION TITLE OF SIGNER STATE (A) THIS FORM IS TO PROVIDE THE AGENCY WITH ONLY BE USED TO REQUEST ONE TYPE OF PERM (B) CLEARLY IDENTIFY THE GENERIC NAME OF THE	DATE JUL 26 1977 MENTAL PROTECTION AGE OF AIR POLLUTION AGE TATE CONSTRUCTION OF PROPERTY OF THE ACCESS EQUIPMENT TO BE CONSTRUCT HIS APPLICATION. THIS FOR	BY STO TYP THE EQUIPMEN RATION - AND N CTED OR OPERAT ORM MUST BE AC	MANURE Manager of LE OF SIGNER IT TO BE CONSTRUCTED OCCOMPANIED BY THE AF	OF SIGNER OPERATED OR OPERATED. CATION WILL APPRECED CATION WI	DATE DATE THIS FORM MAY CAR ON THE		
	BY AFFIXING HIS SIGNATURE HERETO HE FURT AUTHORIZED SIGNATURE(S):(D) BY SIGNATURE TYPED OR PRINTED NAME OF SIGNER NVIRON DIVISION TITLE OF SIGNER (A) THIS FORM IS TO PROVIDE THE AGENCY WITH ONLY BE USED TO REQUEST ONE TYPE OF PERM (B) CLEARLY IDENTIFY THE GENERIC NAME OF THE PERMIT WHICH MAY BE ISSUED PURSUANT TO T (C) PROVIDE A NUMBER IN ITEM 7 ABOVE WHICH Y NUMBER WILL BE REFERENCED IN ALL CORRESP	DATE JUL 26 1977 MENTAL PROTECTION AGE; OF AIR POLLUTION COMPY TATE POLLUTION COMPY TO CONSTRUCTION THIS FOR OPE EQUIPMENT TO BE CONSTRUCT HIS APPLICATION. THIS FOR ONLY ON WOULD LIKE THE AGENCY ONDENCE, RELATIVE TO THI DANCE WITH PCB REGS., CH.	RENCED IN THIS AUTHORIZED TO BY STO TYP TIT NCY TO HE EQUIPMEN RATION - AND N CTED OR OPERAT ORM MUST BE ACC TO USE FOR IT S APPLICATION APTER 2, PART	MANAGER OF THE APPLICATION REMAIN OF EXECUTE THIS APPLICATION REMAIN OF EXECUTE THIS APPLICATION OF YOLK FROM THIS AGENCY.	OF SIGNER OPERATED. OR OPERATED. CATION WILL APREPLICABLE ADDEND UR EQUIPMENT, YOUR IDENTIFIC	DATE DATE THIS FORM MAY AR ON THE OUR IDENTIFICATION ACTION NUMBER MUST CCH STATES:		

9.	A CONSTRUCTION F SUBMITTED IN OUR	ADRUPLICATE.	ASTRUCTION IN COOK COU	NTY OUTSIDE OF THE CORPORAT BE SUBMITTED IN <u>TRIPLICATE</u> .		BE	
10.	ESTABLISHMENTS.	IF SUCH A PLOT PLAN AND	IDENCES, LODGINGS, MUR MAP HAS ALREADY BEEN	ES TO THE NEAREST BOUNDARY SING HOMES, HOSPITALS, SCHO SUBMITTED, INDICATE THE ASS AB APPLICATION NO. 0	NOTE AND COMMEDITAL AND M	A NULE A C TUD THIC	
11.	BA THIS SERMIL Y	APPLICATION. THE DIAGRAM	SHALL INCLUDE LABELS	L EMISSION SOURCES AND ALL FOR EACH EMISSION SOURCE AN PROCESSING EQUIPMENT, (2) A SHEETS:	ID EACH ITEM OF AIR POLLU	TION CONTROL	
12.	SHALL COMPLETE A AN EMISSION SOUR NO	ND SUBMIT THE APPLICABLE CE OR ITS RELATED AIR POL	PERMIT APPLICATION FOR LUTION CONTROL EQUIPME	EQUIPMENT IDENTIFIED ON T MMS. THE FLOW DIAGRAM SHAL NT IS EXHAUSTED. IF IT IS	L INDICATE THROUGH WHICH EXHAUSTED WITHIN A BUILI	STACK OR VENT DING, SO INDICATE.	
13.	OR CONSTRUCTION N/A	PERMITS. HE SHALL COMPLE	G PERMIT, AND THE APPLI TE FORM APC-210, ENTI	CANT IS INCORPORATING BY R TLED "DATA AND INFORMATION	EFERENCE PREVIOUSLY GRANT INCORPORATION BY REFE	ED INSTALLATION RENCE."	
14.	AN AIR CONTAMINA	NT IN EXCESS OF APPLICABL TITLED "OPERATION DURING	E STANDARDS. THE APPL	FUP OF ANY EMISSION SOURCE ICANT MAY REQUEST PERMISSIO	DESCRIBED BY THIS APPLIC, N TO EXCEED SUCH STANDARE	ATION PRODUCES OS BY COMPLETING	
15.	IF THIS IS AN AP DURING MALFUNCTI COMPLETING FORM	PLICATION FOR AN OPERATIN ONS OR BREAKDOWNS PURSUAN APC-204, ENTITLED "OPERAT	T TO PCB REGS., CHAPTE	ICANT IS APPLYING FOR PERM R 2, RULE 105, THE APPLICA AND BREAKDOWN."	ISSION TO OPERATE AN EMIS NT MAY REQUEST SUCH PERMI	SSION SOURCE SSION BY	
16.	N/A IF THIS IS AN APP	PLICATION FOR AN OPERATIN	G PERMIT AND ALL OR AN	Y PART OF THE PROCESS MUST	BE CONTROLLED OR MODIFIE	D TO COMPLY	
17.	WITH APPLICABLE N/A	REGULATIONS, THE APPLICAN	I SHALL COMPLETE FORM	APC-202, ENTITLED "COMPLIAN RATION COVERED BY THIS APPL	NCE PROGRAM & PROJECT COM	PLETION SCHEDULE."	
	PLAN:	X NO					
18.	GOVERNING THE COL	N SOURCE COVERED BY THIS A NTROL OF AIR POLLUTION," A OF THE ENVIRONMENTAL PRO	AUDPIED BY THE EURMER	IL 14, 1972, IN COMPLIANCE AIR POLLUTION CONTROL BOARD YES	WITH THE "RULES AND REGU AND CONTINUED EFFECTIVE	LATIONS PURSUANT	
19.	IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, WAS THE OPERATION THE SUBJECT OF A VARIANCE PETITION FILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE JUNE 13, 1972? DATE OF BOARD ORDER:						
	HAD THE APPLICANT ON OR BEFORE APRIL 14, 1972, COMMENCED CONSTRUCTION OF EQUIPMENT OR MODIFICATIONS SUFFICIENT TO ACHIEVE COMPLIANCE WITH THE APPLICABLE LIMITATIONS OF THE "RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION," ADOPTED BY THE FORMER AIR POLLUTION CONTROL BOARD AND CONTINUED EFFECTIVE PURSUANT TO SECTION 49(c) OF THE ENVIRONMENTAL PROTECTION ACT? YES NO						
	IF "NO," EXPLAIN IN DETAIL AND MARK YOUR EXPLANATION AS EXHIBIT D.						
	TOTAL NUMBER OF P	AGES IN EXHIBIT D:	N/A				
20.	ON THE PLANT OR F	R. SULFUR DIOXIDE, CARBON	PERMIT, THE APPLICAN MONOXIDE, OXIDES OF I SHALL INCLUDE ALL EMIS	T SHALL SUBMIT AN ESTIMATE NITROGEN, AND ORGANIC MATER SION SOURCES LOCATED ON THE	TAL EMITTED EDOM ALL COLL	OCEC LOCATED	
	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATER IAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	
PARTI(CULATE R		SULFUR DIOXIDE		NITROGEN OXIDES	Anounts	
		48LB		245 LB		55 LB	
ORGAN MATER		O LB	CARBON MONOX IDE	7		THE STATE OF THE S	
21.	WHAT IS THE SIZE	O LB (IN ACRES) OF APPLICANT'S	PREMISES?	7 LB			
22.	105	4 Acres		NULTED AC DADE OF THE			
	AND STATE THE TOT	ALL PORMS, EXHIBITS, AND AL NUMBER OF PAGES IN THI	S APPLICATION. AP	MITTED AS PART OF THIS APPLICATION APPLICATION APPLICATION APC2	LICATION. PLEASE NUMBER 60-3Pas: Dwa	EVERY PAGE	



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

	FOR AGENCY USE ONLY
DATA AND INFORMATION	
INCORPORATION BY REFERENCE	
INCORPORATION BY REFERENCE	
1. NAME OF OWNER:	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): Wedron Plant-Wedron Silica Division
Pebble Beach Corporation 3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
P.O. Box 176 5. IDENTIFICATION NUMBER:	Wedron, Illinois 60557
5. Then Trical ton Number: 099 804 AAB	
6a, APPLICATION NUMBER: C701041	b. IDENTIFICATION ON FLOW DIAGRAM: Dwg. No. 509
of Environeering A33 Wet Scrubber	
DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA &	./ '
a. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
03031358 C CONSTRUCTION CALOPERATION	Dwg. RR2-R0 (New Dwg. No. 509)
OF Area I New Dryer Building	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CON	RRECT, CURRENT & COMPLETE?
e. IF "NO, "SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & 1	INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.
Ba. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
OF OPERATION	to may required a consequence of
DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, COF	RRECT, CURRENT & COMPLETE?
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & 1	
APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
C. CONSTRUCTION OPERATION	
OF	RRECT, CURRENT & COMPLETE?
	INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.
C-210 . 100%	Racycled Paper 3.0F8 PAGE 1 OF

35

2.16

60FB ME30F3

Exhibit "A"

Concentration or Emission Rate

ArRo Laboratories sampled the stack on the conveyor exhaust system, which consists of a settling box and fan with water addition covered under operating permit 03031358 AREA 1 NEW DRYER BUILDING, and found an emission rate of 0.34 lb/hr. We estimate the efficiency of this existing "homemade" collector to be 30% in which case the inlet grain loading would be:

0.34 lb/hr x 7000 gr/lb x 1/60 min/hr x 1/2043 SCFM x 1/0.30 = .065 gr/SCF

Because the new scrubber in this application is being used on similar equipment and will replace the "homemade" collector, we use this grain loading and the new scrubber efficiency of *99% for 0-5 micron particles and calculate the emission rate for the new scrubber to be:

Design: 13000 CFM

.065 gr/SCF x 13000 CFM x 1/7000 gr/1b x 60 min/hr x (100-99)% = 0.072 lb/hr

This emission rate in grains per standard cubic foot then is:

.065 gr/SCF (100-99)% = 0.00065 gr/SCF

* Efficiency data from "U.S. Environmental Protection Agency" - "Compilation of Air Pollutant Emission Factors" Second Edition 193 and Environeering a subsidiary of The Riley Company literature.